

9-6-06
MLM

Material Safety Data Sheet
Potassium ferri(III)cyanide, reagent ACS, 99%
MSDS# 95765

Section 1 - Chemical Product and Company Identification
MSDS Name: Potassium ferri(III)cyanide, reagent ACS, 99%
Catalog Numbers: AC424120000, AC424120050, AC424125000
Synonyms: Red prussiate; Red potassium prussiate; Potassium ferricyanide; Potassium hexacyanoferrate(III); Potassium iron(III) cyanide; Iron potassium cyanide; Potassium ferricyanate; Tripotassium iron hexacyanide; Tripotassium hexacyanoferrate.

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaalaa 3a
2440 Geel, Belgium
Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients
CAS#: 13746-66-2
Chemical Name: Potassium ferri(III)cyanide
%: > 99
EINECS#: 237-323-3

Hazard Symbols: None listed
Risk Phrases: 32
Section 3 - Hazards Identification
EMERGENCY OVERVIEW

Caution! Causes respiratory tract irritation. Light sensitive.
Causes eye and skin irritation. Contact with acids liberates hydrogen cyanide, a very toxic, flammable gas or liquid.
Target Organs: Respiratory system, eyes.
Potential Health Effects
Eye: May cause mild eye irritation. Contact may cause transient eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.
Inhalation: May cause respiratory tract irritation.
Chronic: May cause respiratory tract irritation.

Section 4 - First Aid Measures
Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:
Section 5 - Fire Fighting Measures
General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.
Autoignition Temperature: Not available.
Flash Point: Not applicable.
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available

NFPA Rating:
Health: 1; flammability: 1; instability: 0;
Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.
Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Avoid breathing dust. Avoid temperatures above 210°C (410°F).

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light. Isolate from oxidizing materials and acids.
Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|------------------------------|--|--|---|
| Potassium ferri(III) cyanide | 1 mg/m3 TWA (as Fe) (listed under Iron salts (soluble)). | 1 mg/m3 TWA (as Fe) (listed under Iron salts (soluble)). | 5 mg/m3 TWA (listed under Cyanide anion). |

OSHA Vacated PELs:
Potassium ferri(III)cyanide:
1 mg/m3 TWA (as Fe) (listed under Iron salts (soluble))
5 mg/m3 TWA (as CN) (listed under Cyanide anion)
Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties
Physical State: Solid
Color: red
Odor: odorless
pH: Not available
Vapor Pressure: Negligible
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Decomposes
Decomposition Temperature: Soluble
Solubility in water: Soluble
Specific Gravity/Density: 1.85 g/cm3
Molecular Formula: C6FeK3N6
Molecular Weight: 329.26

Section 10 - Stability and Reactivity
Chemical Stability: Stable under normal temperatures and pressures. Decomposes when heated.

Conditions to Avoid: High temperatures, light, dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, cyanides, oxides of potassium.

Hazardous Polymerization: Will not occur.

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RTECS#:
CAS# 13746-66-2: LJ8225000
LD50/LC50:
RTECS: CAS# 13746-66-2: Oral, mouse: LD50 = 2970
mg/kg;
Other:
Carcinogenicity:
Potassium ferri(III)cyanide -
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology:
Not available
Teratogenicity:
Not available
Reproductive:
Not available
Neurotoxicity:
Not available
Mutagenicity:
See actual entry in RTECS for complete information.
Other:
The hazards associated with cyanide may be seen in this product.
Section 12 - Ecological Information

Ecotoxicity:
Not available
Section 13 - Disposal Considerations
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.
US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.
Section 14 - Transport Information

US DOT
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group: Section 15 - Regulatory Information

US Federal
TSCA
CAS# 13746-66-2 is listed on the TSCA Inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
Section 313
No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
CAS# 13746-66-2 is listed as a Priority Pollutant under the Clean Water Act.
CAS# 13746-66-2 is listed as a Toxic Pollutant under the Clean Water Act.
OSHA:

STATE
Potassium ferri(III)cyanide can be found on the following state right to know lists: California, (listed as Iron salts (soluble)), California, (listed as Cyanides, inorganic salts), New Jersey, (listed as Cyanide anion), New Jersey, (listed as Cyanides, inorganic salts), Pennsylvania, (listed as Iron salts (soluble)), Pennsylvania, (listed as Cyanide anion), Minnesota, (listed as Iron salts (soluble)), Massachusetts, (listed as Cyanide anion).
California Prop 65
California No Significant Risk Level:
None of the chemicals in this product are listed.
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available
Risk Phrases:

4,183

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Safety Phrases:
R 32 Contact with acids liberates very toxic gas.
S 50A Do not mix with acids.
WGK (Water Danger/Protection)
CAS# 13746-66-2: 2

Canada
CAS# 13746-66-2 is listed on Canada's DSL List
Canadian WHMIS Classifications: Not available
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
CAS# 13746-66-2 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information
MSDS Creation Date: 6/27/2000
Revision #4 Date 8/17/2005
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages however arising, even if the company has been advised of the possibility of such damages.